

2012

UDOT
RESEARCH
DIVISION



2012 UTRAC PROBLEM STATEMENT PRIORITIZED LIST

Prob No.	Problem Title	Pref Order	Approx Duration	Total Cost	UDOT Cost
GRP 1 CONSTRUCTION & MATERIALS					
12.01-3	Cold-In-Place Recycling (CIR) Phase III - Binder Content Evaluation	1	6 mo	\$60,000	\$60,000
12.01-9 PENDING 2013	Evaluation of Internal Curing of Concrete Bridge Decks (also 12.04-7)	2	48 mo	\$50,000	TBD
GRP 2 MAINTENANCE					
12.02-3	Utah Winter Severity Index	1	12 mo	\$30,000	\$30,000
12.02-4	Development of Mobile Applications for UDOT Maintenance	2	18 mo	\$161,000	70,000
GRP 3 TRAFFIC MANAGEMENT & SAFETY					
12.03-11	Simple Web-based Decision Support Tool for Traffic Management and Work Zone Analysis	2	12 mo +	\$100,000	\$50,000
12.03-7 PENDING 2013	Pre-empted LRT Operations and Traffic Signal Coordination for Performance and Safety Improvements	5	12 mo	\$100,000	\$30,000
GRP 4 STRUCTURAL & GEOTECHNICAL					
12.04-5	Pooled Fund: Passive Force-Displacement for Skewed Abutments	1	18 mo	\$150,000	\$20,000
12.04-4	Pooled Fund: Lateral Pile Resistance near MSE Walls at a Dedicated Wall Site	2	24 mo	\$215,000	\$20,000

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GRP 4	STRUCTURAL & GEOTECHNICAL				
TPF Sol. No 1326	Reorganization of Section 5, Concrete Structures, of the AASHTO LRFD Bridge Design Specifications			\$250,000	\$20k-\$30k
GRP 5	ENVIRONMENTAL & HYDRAULICS				
12.05-1	Environmentally Friendly and Sustainable Stream Stability in Vicinity of Bridges		18 mo	\$60,000	\$60,000
GRP 6	PRECONSTRUCTION				
12.06-10	Effective Construction Risk Management through CMGC Contracting	2	12 mo	\$15,000	\$10,000
12.06-12 PENDING 2013	Cost Benefit of Subsurface Exploration by Project Type	2		\$16,000	\$18,000